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5810 W 78TH S	STREET	ROBITAILLE, JOHN P		
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			1744	
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# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/597,172	SKIPPER, RICHARD STUART			
Office Action Summary	Examiner	Art Unit			
	John P. Robitaille	1744			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION B6(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status					
<ol> <li>Responsive to communication(s) filed on <u>21 Ja</u></li> <li>This action is <b>FINAL</b>. 2b) ☐ This</li> <li>Since this application is in condition for allowant closed in accordance with the practice under E</li> </ol>	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☑ Claim(s) 1-9,12,14-26 and 44 is/are pending in 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☑ Claim(s) 1-9,12,14-26 and 44 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.				
Application Papers					
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction of the original original access access to the second sheet (s) including the correction of the original o	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 01/21/2011.	4)  Interview Summary Paper No(s)/Mail Da 5)  Notice of Informal P 6)  Other:	ate			

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This action on the merits is in response to the remarks and amendments received 21 January 2011. Claims 1-9, 12, 14-26, & 44 are pending. Claims 10, 11, 13, & 27-43 are cancelled. Claim 1 is amended.

#### **DETAILED ACTION**

## Response to Amendment

### Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claim 1, 2, 5, 7-9, 14-16, 23 & 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 to Hammar et al. ('446 hereafter) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) already of record.
- 3. Regarding claim 1, '446 teaches a method of producing a plurality of soft contact lenses comprising the steps of: A. providing a sheet of solid, substantially dry material (C2L65-C2L68); C. hydrating said plurality of shaped lens blanks (C2L68)). '446 does not teach forming a plurality of blanks on the same sheet, or that the blanks remain attached to the sheet subsequent to formation.
- 4. In the same field of endeavor, lens formation, JP'729 teaches molding by pressing (FIG 8), and using the sheet of formed lens blanks as a transport mechanism for said plurality of shaped lens blanks (FIG 10) for the benefit of reduce the time to form lenses. It would have been obvious to a person of ordinary skill in the art at the

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time of invention to combine the teachings of '446 with those of JP'729 for the benefit of reducing the time to form lenses.

- 5. Regarding claim 2, '466 teaches a method of producing a plurality of soft contact lenses wherein said sheet of solid substantially dry solid material is water soluble above a certain temperature and formed into a plurality of shaped lens blanks at a temperature below said certain temperature (C7L9). Note that '446 teaches the use of poly(vinyl alcohol) and it is known in the art that poly(vinyl alcohol) is soluble in water above a certain temperature, as evidenced by "Polyvinyl alcohol fibers" by Ichiro Sakurada (CRC Press; 1985; 9780824774349) (see page 15).
- 6. Regarding claim 5, '446 teaches the method of producing a plurality of soft contact lenses in which the said material is chosen from the group consisting of polyvinyl alcohol or a copolymer of polyvinyl alcohol and polyvinyl acetate or polyethylene-maleic-anhydride or polymethyl-hydrox-propyl-cellulose or copolymers of methyl acrylate or ethyl acrylate or their derivatives (C7L9).
- 7. Regarding claim 7, '446 teaches a method of producing a plurality of soft contact lenses, in which said material is a substantially uncrossliked polymer comprising crosslinkable groups and in which, prior to the hydration step C, high energy is applied to said plurality of shaped lens blanks, whereby said polymer is crosslinked to a predetermined, desired crosslink density (C6L30).
- 8. Regarding claim 8, '446 teaches a method of producing a plurality of soft contact lenses in which the material contains additives that react to the application of high energy to improve crosslinking efficiency (C5L64).

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9. Regarding claim 9, '446 teaches a method of producing a plurality of soft contact lenses in which the application of high energy involves irradiation of the plurality of shaped lens blanks by a form of high energy chosen from the group consisting of electron beam irradiation or gamma irradiation or microwave irradiation or ultraviolet irradiation or infrared irradiation or thermal irradiation or ultrasound irradiation (C6L29).

- 10. Regarding claim 14, '446 teaches a method of producing a plurality of soft contact lenses in which said physical forming step B comprises the following substeps:

  B. 1 heating said material to a temperature that: a) is near to the softening temperature of the material, whereby thermoforming of said material is possible, but b) is below the melting point of said material, whereby the physical integrity of said material is maintained (C6L59); and B.2 thermoforming said plurality of shaped lens blanks through application of physical force to said material (C6L55).
- 11. Regarding claim 15, '446 teaches a method of producing a plurality of soft contact lenses in which said thermoforming sub-step involves compression of the material between two forms or platens (C6L55).
- 12. Regarding claim 16, '446 teaches a method of producing a plurality of soft contact lenses, in which the physical forming step B involves the use of moulds and said material is placed between said moulds which are pressed together to form said plurality of shaped lens blanks (C6L55).
- 13. Regarding claim 23, '446 teaches a method of producing a plurality of soft contact lenses, in which all process steps subsequent to step B are carried out without

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fresher human contact or handling. Note that '446 does not specifically recite any human intervention.

- 14. Regarding claim 24, '446 teaches a method of producing a plurality of soft contact lenses, which method is automated or semi-automated to run in a continuous or semi-continuous manner (ABSTRACT).
- 15. Claims 3 & 4 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of Hassan et al. (Amjad, Zahid (ed); Water Soluble Polymers Solution Properties and Applications; Springer Verlag; 1998; pp 31-40)
- 16. Regarding claims 3 & 4, the previous art combination does not teach the solubility transition temperature of the polyvinyl alcohol.
- 17. In the same field of endeavor, PVA manufacture, Hassan et al. teach a PVA composition with a solubility transition temperature of about 50 ℃ or about 65 ℃ (p31 − ABSTRACT) for the benefit of obviating the need for crosslinking agents, thus rendering the PVA suitable for use in medical applications. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination with Hassan et al., for the benefit of maiking a film suitable for use in a medical application.
- 18. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication

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2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of Iwaseya et al. (J MATER SCI 41 (2006) 1979–1982)

- 19. Regarding claim 6, '446 teaches a method of producing a plurality of soft contact lenses, in which said material is a copolymer of polyvinyl alcohol and polyvinyl acetate (C13L14). '446 does not disclose the degree of hydrolysis.
- 20. In the same field of endeavor, polyvinyl alcohol film production Iwaseya et al. teach a degree of hydrolysis of 96%mol (Figure 1), for the benefit of increasing the crystallinity. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination with Iwaseya et al. for the benefit of increasing the crystallinity of the film.
- 21. Claim 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of U.S. Patent 4,652,721 (Miller et al., '721 hereafter and already of record).
- 22. Regarding claim 12, the previous art combination does not teach that the lens blanks are removed from the sheet by a laser device.
- 23. In the same field of endeavor, contact lens manufacture, '721 teaches method of producing a plurality of soft contact lenses wherein said plurality of shaped lens blanks are fully removed from the sheet at a stage after step B by the use of a laser cutting device (ABSTRACT) for the benefit of completing the lens blanks without mechanical milling. It would have been obvious to a person of ordinary skill in the art at the time of

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invention to combine the teachings of the previous art combination with '721 for the benefit of minimizing the handling of the lens blanks.

- 24. Claims 17 & 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of U.S. Patent 5,166,528 (Thurston C. Le Va, '528 hereafter)
- 25. Regarding claim 17, the previous art combination does not teach the sterilization.
- 26. In the same field of endeavor, contact lens manufacture, '528 teaches the method of producing a plurality of soft contact lenses, in which high energy is applied to said plurality of shaped lens blanks and/or to said plurality of soft contact lenses in order to sterilise them (ABSTRACT) for the benefit of preventing infection. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination with '528 for the benefit of producing a medical device which will not cause infections.
- 27. Regarding claim 18, the previous art combination does not teach the type of high energy used to sterilize.
- 28. In the same field of endeavor, contact lens manufacture, '528 teaches a method of producing a plurality of soft contact lenses in which the application of high energy involves irradiation by a form of high energy chosen from the group consisting of electron beam irradiation or gamma irradiation or microwave irradiation or ultraviolet irradiation (ABSTRACT) for the reasons stated in the rejection of claim 17 above.

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29. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of U.S. Patent Application Publication 2004/0112008 (Voss et al., 04/008 hereafter).

- 30. Regarding claim 19, the previous art combination does not teach transfer to final packs.
- 31. In the same field of endeavor, contact lens manufacture, 04/008 teaches the transfer of the lens blanks to final packs (ABSTRACT) for the benefit of maintaining the lens blanks in sterile storage. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination with 04/008 for the benefit of maintaining individual lens blanks in sterile containers.
- 32. Claims 20 & 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) in view of U.S. Patent Application Publication 2004/0112008 (Voss et al., 04/008 hereafter) and further in view of U.S. Patent 6,474,465 (Egbert Jux, '465 hereafter).
- 33. Regarding claim 20, the previous art combination does not teach that the final packs are presterilized.
- 34. In the same field of endeavor, contact lens manufacture, '465 teaches that the final packs are sterilized prior to packaging the lens blanks (C2L4) for the benefit of maintaining the sterile field. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination

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with '465 for the benefit of preventing infection. Note that since the final packs of'465 receive a sterile solution, it is essential that the packages themselves be presterilized in order to maintain the sterility of the solution and the lens.

- 35. Regarding claim 21, the previous art combination does not teach a sterile solution for hydrating the lens blanks in the final packs.
- 36. In the same field of endeavor, contact lens manufacture, '465 teaches the addition of a sterile solution for hydrating the contact lens blanks (C2L4) for the benefit of maintaining the oxygen permeability of the contact lens product. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination and '465 for the benefit of providing the end user with a contact lens with good oxygen permeability.
- 37. Claims 22 & 44 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of U.S. Patent 6,113,817 (Herbrechtsmeier et al., '817 hereafter)
- 38. Regarding claims 22 & 44, the previous art combination does not teach hydrolysis in the final package.
- 39. In the same field of endeavor, contact lens manufacture, '817 teaches hydrolysis of the lens blanks within the final package (C15L65) for the benefit of increasing the crosslinking of the lens blanks. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art

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combination and '817 for the benefit of speeding the manufacture of contact lens blanks by allowing crosslinking to continue outside of the manufacturing line.

- 40. Claims 25 & 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 4,786,446 (Hammar et al.) in view of Japanese Patent Application Publication 2235729 (JP'729 hereafter) as applied to claim 1 above, and further in view of U.S. Patent Application Publication 2002/0163638 (Biel et al., 02/638 hereafter).
- 41. Regarding claim 25, the previous art combination does not teach an optical inspection system.
- 42. In the same field of endeavor, contact lens manufacture, 02/638 teaches a method of producing a plurality of soft contact lenses which further involves quality control inspections on the shaped lens blanks only (ABSTRACT) for the benefit of reducing the delivery of defective contact lenses to end users. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the teachings of the previous art combination with 02/638 for the benefit of reducing the delivery of defective contact lenses to end users.
- 43. Regarding claim 26, the previous art combination does not teach an optical inspection system.
- 44. In the same field of endeavor, contact lens manufacture, 02/638 teaches a method of producing a plurality of soft contact lenses which further involves quality control inspections on the shaped lens blanks only (ABSTRACT) for the benefit of reducing the delivery of defective contact lenses to end users. It would have been obvious to a person of ordinary skill in the art at the time of invention to combine the

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teachings of the previous art combination with 02/638 for the benefit of reducing the delivery of defective contact lenses to end users.

### Response to Arguments

45. Applicant's arguments with respect to claim 1 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

46. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John P. Robitaille whose telephone number is (571) 270-7006. The examiner can normally be reached on Monday to Thursday from 8:00 AM to 4:00 PM. The examiner can also be reached on alternate Fridays.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yogendra Gupta can be reached on (571) 272-1316. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Yogendra N Gupta/ Supervisory Patent Examiner, Art Unit 1791

JPR